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MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,  
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SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
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For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: **MARKER FOR CANCER**

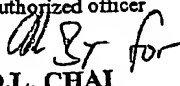
(57) Abstract: The present invention relates to a cell-free immunoreactive Integrin Linked Kinase which is present in samples of biological fluids from patients suffering from ovarian cancer. The invention also relates to methods of diagnosis, screening, monitoring treatment and treatment of cancers, especially ovarian cancer, and to kits and compounds for use therein.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/01058

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
Int. Cl. <sup>7</sup> : C07K 14/47, 16/18; C12N 9/12; G01N 33/53; A61K 39/395; A61P 35/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
Databases: Medline, Chemical Abstracts, Biosis, WPIDS		
Keywords: Integrin Linked Kinase, ILK, irILK, ovary, ovarian, cancer, tumour		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CRUET-HENNEQUART, S. <i>et al.</i> , "αv integrins-mediated proliferation of human ovarian adenocarcinoma cells by regulation of p27Kip1 through the ILK/Akt pathway", Proceedings of the American Association for Cancer Research (2002), vol. 43, page 1046 See whole document	1-25
X	STEPHANIE, S. <i>et al.</i> , "Integrin-Linked Kinase in Ovarian Cancer Cells", Proceedings of the American Association for Cancer Research (2001), vol. 42, page 839 See whole document	1-25
X	WO 97/23625 A1 (DEDHAR S. and HANNIGAN G.), 3 July 1997 See whole document	1-25
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&amp;" document member of the same patent family</p>		
Date of the actual completion of the international search 3 September 2003		Date of mailing of the international search report 22 SEP 2003
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer  O.L. CHAI Telephone No : (02) 6283 2482

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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU03/01058

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DEDHAR S. <i>et al.</i> , "Integrin-linked kinase (ILK): a regulator of integrin and growth-factor signalling", Trends in Cell Biology (1999), vol. 9, no. 8, pages 319-23 See whole document	1-25
X	US 6,177,273 B1 (BENNETT C.F. <i>et al.</i> ), 23 January 2001 See whole document	1-25
P, X	CRUET-HENNEQUART, S. <i>et al.</i> , " $\alpha_v$ integrins regulate cell proliferation through integrin-linked kinase (ILK) in ovarian cancer cells", Oncogene (2003), vol. 22, no. 11, pages 1688-1702 See whole document	1-25
A	WONG, A.S.T. <i>et al.</i> , "Profiling of Protein Kinases in the Neoplastic Transformation of Human Ovarian Surface Epithelium", Gynecologic Oncology (2001), vol. 82, no. 2, pages 305-311 See Table 1	1-25
A	WANG, S.C. <i>et al.</i> , "DOC-2/hDab-2 inhibits ILK activity and induces anoikis in breast cancer cells through an Akt-independent pathway", Oncogene (2001), vol. 20, no. 47, pages 6960-6964 See abstract and column 1, page 6960	1-25

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/01058

**Box I** Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos :  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☒ Claims Nos : 15, 16, 18 and 19  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:  
These claims define "agents" which are capable of modulating ILK, however the structure of these agents is not defined. These claims are not fully supported by the description.
  
3. ☐ Claims Nos :  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

**Box II** Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/AU03/01058**

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
WO 9723625	AU	76146/96	CA	2239151	EP	870033	
	NZ	322401	US	6001622	US	6013782	
	US	6338958	US	6369205	US	2002107216	
	US	2002122801	US	2002155179			
US 6177273	AU	200121189	CA	2389036	EP	1224202	
	WO	200130801					
END OF ANNEX							